TCCCAAGTAGCTGGGACTACAGGCGCCCGCACTACGCCCGGCTAA!"I"TTTTGTATTTTTAGI'AGAGACGGGG'!"1"LVACCG <u>CAAGGCTGGAGTGCAGTGGCGCGCATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTICTGCTTGCTTCACCCCATTCTTCTGCCTCCTGCCTCAGCC</u> CTAAGCTCTGCCTGCCAGATCAGCAGGCAGCATTAGATTCTCATAGGAGCTGGACGCTTATTGTGAACTGCCATGT AAACCATCCCCCCACCAATCCATAGAAATACTGTCTTCCACAAAAATGATCCCTGGTGCCAAAAATGTTAGAGACCACTCC -1280 TTAAGAATGCAATACAATTTGAAGATCAGATTTTTTCI'CCCT'I'TGTGAGAATTTTCTCAGTATG'I'G'I'GA'I'GAC'I'ACCAAGAA -1040 ITTTANGGTTGACTCCTTCCCTGGGCTCAGGGTTCCCTAGAACAGAGGTCCCCCAAATCCCGGTCTGTGGCCNGTCCCG -1680 ATAGATTATAATTTGTAATGGAATCAACACCCAAATGCAAATTAGAAAGAGAGCCCACTTTGCTCACCTAGTCAGGTCTTTC -1520 GGCCTAGTGCCAGGACCCATGGCCTTTTTTAAGCTCAGACTCCCTTCTGTGAACAGCAATATCCCCACAACTTGTACAA -1440 CATTGGTGCTTCCTGCAAGGGCTACAGAACTATTTGATACGAAAATGTTCATTGACTTACACAAAAGAAAATG

<u>TGGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCCCCCTTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTG</u> <u>AGACCGCCCCGCCCGT</u>CATTTGGTATGTCTTAATGTGCCTCAGGACCTAGCACAGTCCCTGGTACCCAGTAGAGACCTA TGTAATGTTCGTTATTCAATAATAAATACATGAATTAAAGAGTGAGAGTGGATTTTTGTAATGTTACGACTGATAGAGAAA -240 TACTCAGTGATTCTAAGGGATGGGGAAGAACGGTTGGAGCTAGAGGTTGTGCTCAGGAAACTATTAAATAGACGTTCCGC

AGGAAGGGATTGACGAAGTGTGAGGTTAATGAGGAAGGGAAAATAGAA<mark>TATAAA</mark>AT"TTGGTGGAAAAAAAGATCTGAT"LC -80 -

24.

Met Val Met Gly Leu Gly Val Leu Leu Leu Val Phe TITIGCCCTCCGCAGGAGCCTGTGTTGGAAGAG ATG GTG ATG GGC CTG GGC GTT TTG TTG TTG GTC +81

++

Val Leu Gly Leu Gly Leu Thr Pro Pro Thr Leu Ala Gln Asp Asn Ser Arg Tyr Thr His CTG GGT CTG GGT CTG ACC CCA CCG ACC CTG GCT CAG GAT AAC TCC AGG TAC ACA CAC

10

Phe Leu Thr Gln His Tyr Asp Ala Lys Pro Gln Gly Arg Asp Asp Arg Tyr Cys Glu Ser CTG ACC CAG CAC TAT GAT GCC AAA CCA CAG GGC CGG GAT GAC AGA TAC TGT GAA AGC TTC

Fig. 1B

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. .

+1582 ACCAATTACATTATTTCCTCTGTAATCTTTACTTTATCAACTAATGTCTGGCAAGTGTGTTTTTGGGGAAGTTTTT CTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAATAGCTGAGATTACAGGCATGCACCACCACCTGGCTAAT TITITGIGITITITIAGIAGACAGGGITITCACCGITITIGGCCAGGITGGICITIGAACTCCTGACCICGGGAGATCCGCCCA TIPTITITITITIGAGATGGAGTCTCACTCTGTCGCCCAGGCTTAAGTGCAATGGCACAATCTCGGCTCACTGCAACCTCTT

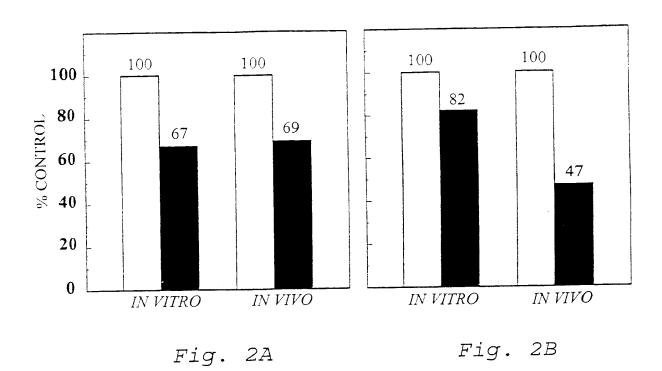
+2062 AATACACTGTTCAATCTACAGACTCAGTGGTTAGCTTCCTGTTAACTAATTTCTGTTGACAGGTACTTGGATATTTTATT +1982 CCAGTTTATCCCTTATTCTTCTCTCAAGATTTGTTTTTAAGTTAACATAACTTAGGTTAAGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAG +1822 <u>CCTATAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGGAGGCGGAGGTTGCACTGAGCCGAGAT</u> +1662 AAGATŢĊÇGGCCAGGCGCTTATCTCACGCTTGTAATCCAGCACTTTGGGAAGCTGAGGCGGACAGATCACGAGGTCAAGA +1742 GATCAAGACCATCCTGGACAACATGGTGAAACCTTGTCTCTACTAAAAATGTGAAAATTAGCTGGGCGTGGTGGCACACA

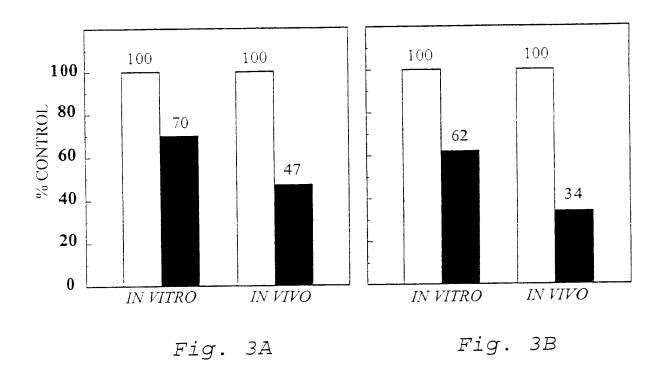
Fig. 1D

+2782 GAAATCGCTGTTTCATAGGAAATCACATGGCAGTGGGATGGGAGTGTTTTCCTGACCTGCGGATGGTACTGGCACCTGACC +2462 AAAATAGGAAAAAGTATTCCAAACCTCTGTCAC'IAGAAAAT'ITGCCATATTACCAAATCTCAAAAACCTCTCAGGAAATG +2622 AAGTTACTCAAGATCATCGCTGCCACTCAAGGCCTTGATAGGGCAAGTGAAAGGCATGGACCATTATTATTTGATCACA +2702 GCATAAGCTGTGAAAACCCACATCTTCTCCAAACATCTGGTTGGAGCATTATCATCGCATAGTTTGGTGTTTGG +2382 AGCTGGTATGTGCTTAGCACAAGAATCTCTTTCCTTGGGTTAGTCTGTTTCAAAACTGAAAACTGTCTTTTCAAA +2222 TTCCCTATGGTGGCTTCTCCTGCTCCTGGTATTGCCCTGAAATGGGCCAAAAGCCGTGGCTCCCCAATGCTCAGGTTATA +2302 GAACATTGTCCAGGTACCACCTAGGAGAGCCCAGCCTCACTGAAAGTATTCAAATTTAGGAATGGGTTTGAGAAGTAGGT +2542 AGAAAGI'CCCAGT'ITC'IGGTAAACTAITI'GGGCCCTITI'I'CTCAAGT'I'CTCCTTCCAG'IGCTAI'I'I'CTCTI'GAGGTGAGGCA +2142 TAGAAAGTGGTTGCCAATAAATTAGTTATAAGTCGCCAGTTTCACTGCCTTGTGAACACATAATTATTGTGGTCTCAGTA

+2942 AGGCAGGTCATTTTATCCTGCGTGAATCAATTGAAG

Fig. 1E





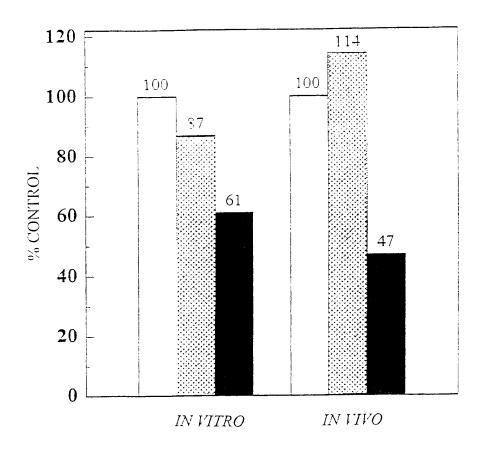


Fig. 4

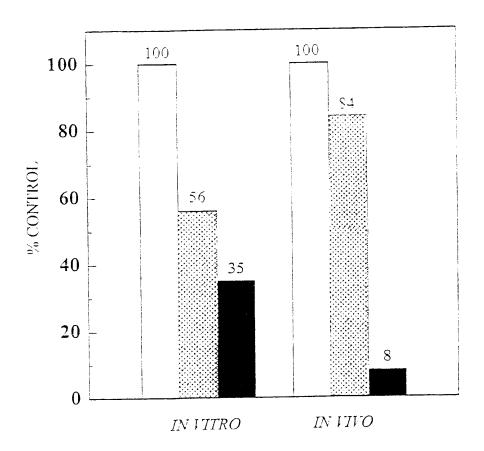


Fig. 5

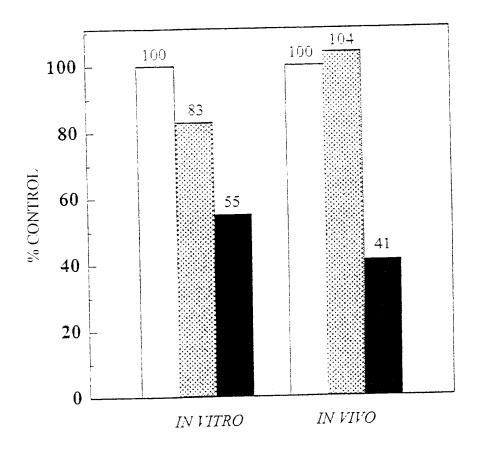


Fig. 6

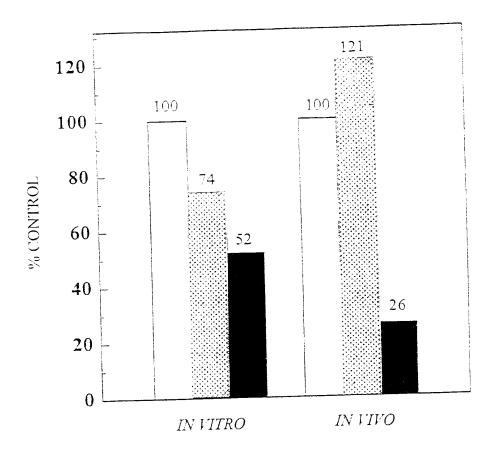
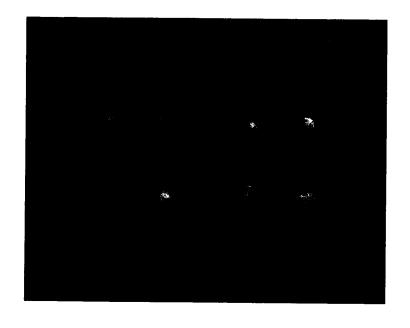


Fig. 7



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FIG. 8

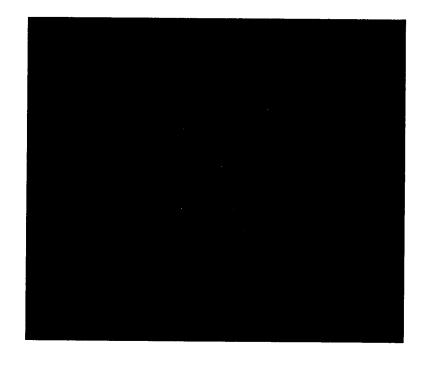
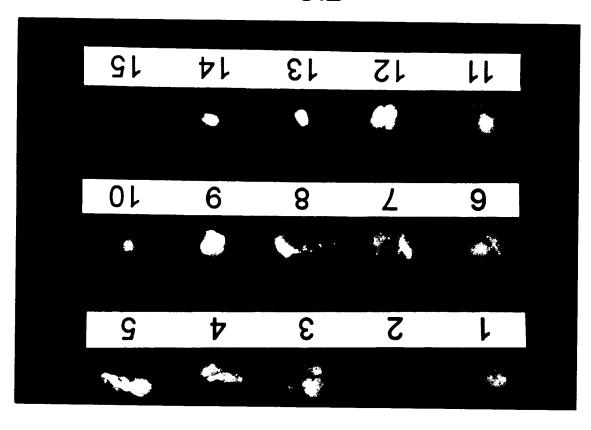
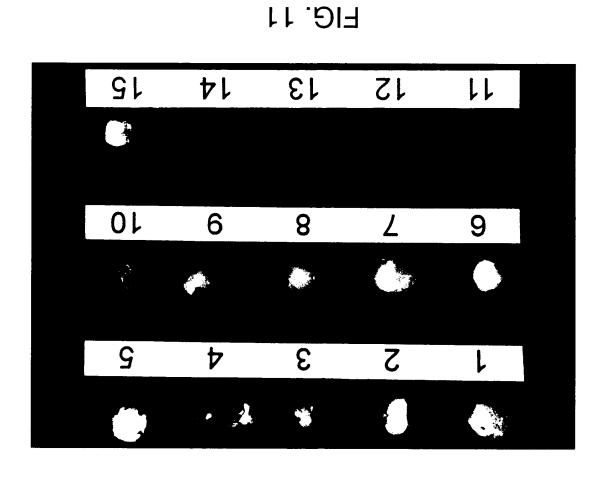


FIG. 9



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FIG. 10



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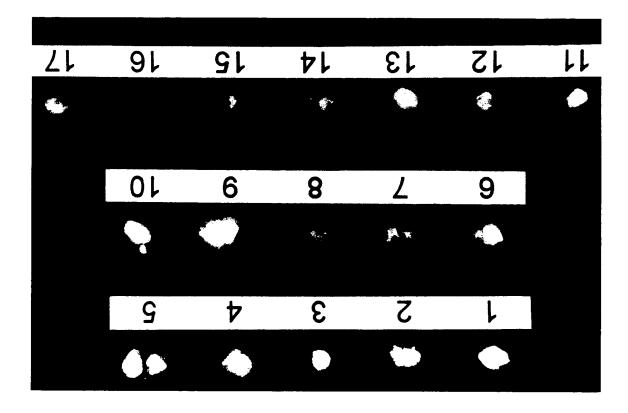


FIG. 12

FIG. 13

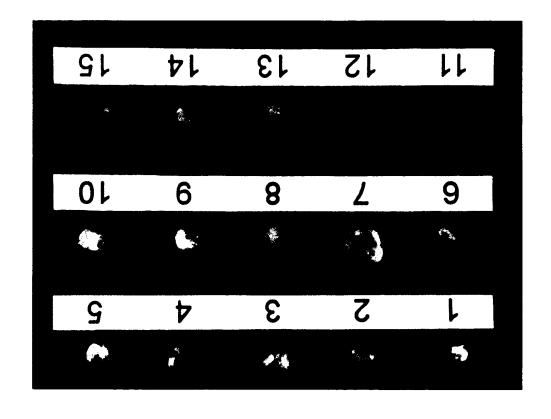
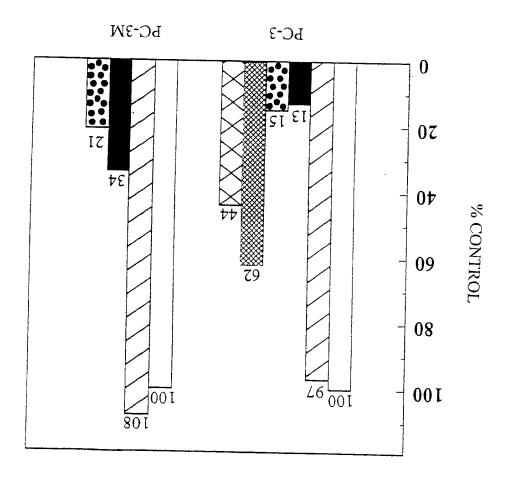


Fig. 14



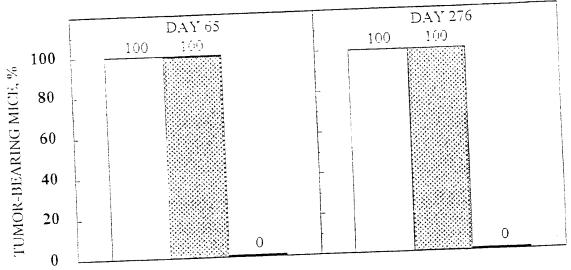


Fig. 15A

Fig. 15B

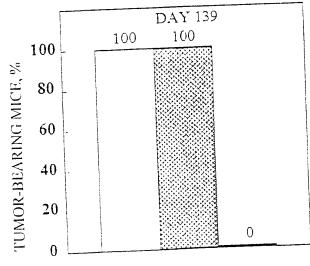


Fig. 15C

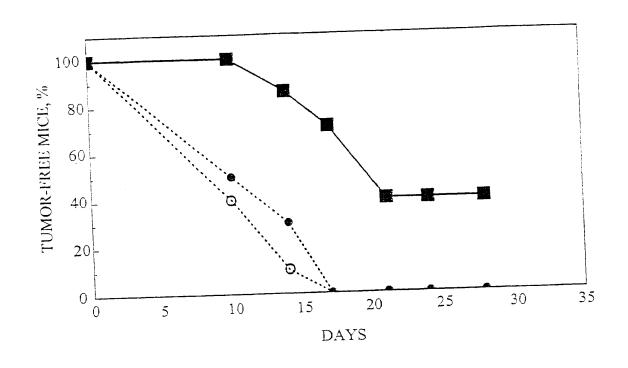


Fig. 16

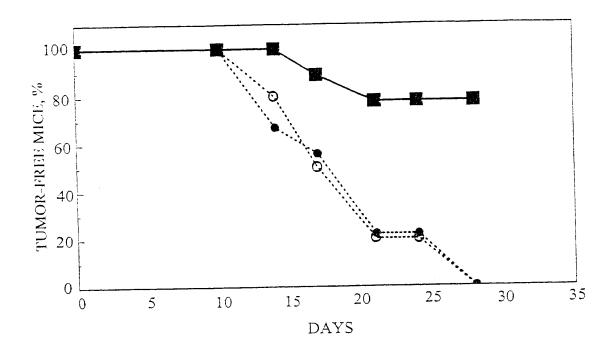


Fig. 17